



## NCDOT Prioritization 3.0 Project Summary

**SPOT ID:** H090542

**Mode:** Highway

**Status:** Submitted

### (New Route - Kernersville Southern Loop Road)

**From/Cross Street:** I-40 Business

**Specific Improvement Type:** 6 - Widen Existing Roadway and Construct Part on New Location

**To:** West Mountain Street

**Project Category:** Division Needs

**Length:** 1.8

**TIP#:**

**Fully Funded in Draft STIP?** No

**Cost to NCDOT:** \$27,000,000

#### Description:

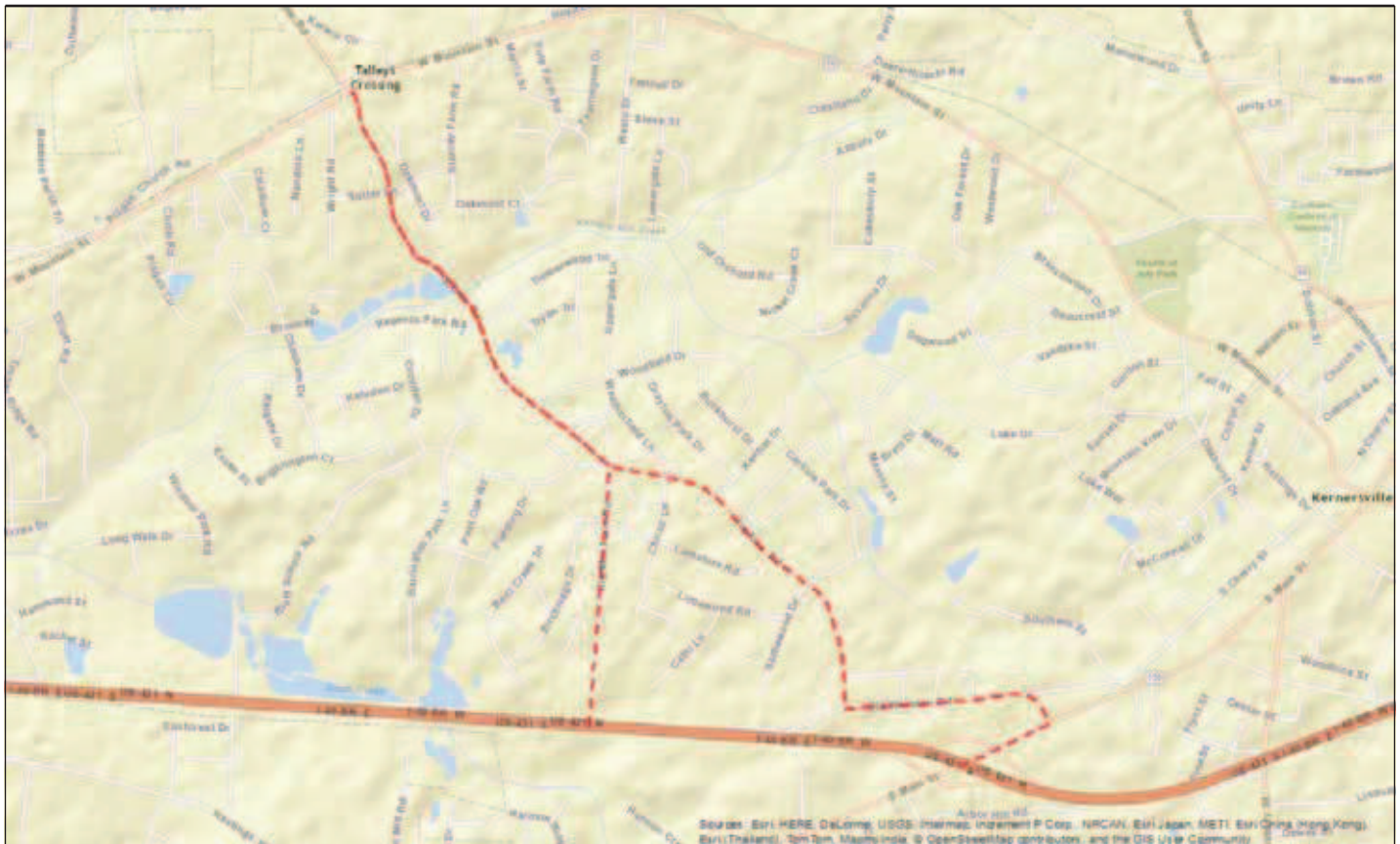
Kernersville Southern Loop Road (Phase I) - Widen Big Mill Farm and Hopkins Roads to a 2-Lane Arterial with sidewalk and bike lanes from Business I-40 to West Mountain Street and Build An interchange at Business I-40.

**Division(s):** Division 9

**County(s):** FORSYTH

**MPOS(s)/RPO(s):** Winston Salem Urban Area MPO

#### Project Location



**Statewide Mobility Total Score: 0**

| Quantitative Score                          | Division Engineer<br>Local Input Points | MPO/RPO Local<br>Input Points |
|---|---|-------------------------------|
| <b>Totals: Weight: 0% Weighted Score: 0</b> | N/A                                     | N/A                           |

**Regional Impact Total Score: 0**

| Quantitative Score                          | Division Engineer<br>Local Input Points | MPO/RPO Local<br>Input Points |
|---|---|-------------------------------|
| <b>Totals: Weight: 0% Weighted Score: 0</b> | Percent: 15%<br>Points: 0               | Percent: 15%<br>Points: 0     |

**Division Needs Total Score: 67.42**

| Quantitative Score  | Division Engineer<br>Local Input Points | MPO/RPO Local<br>Input Points |
|---|---|-------------------------------|
| Congestion (V/C) (20%)                      51.66<br>Safety (10%)                                      56.55<br>[Travel Time] Benefit/Cost (20%)           7.16<br><br><b>Totals: Weight: 50% Weighted Score: 17.42</b> | Percent: 25%<br>Points: 100             | Percent: 25%<br>Points: 100   |

**Project Data \*****Existing Conditions**

|   |                 |
|---|-----------------|
| Existing Cross-Section:                     |                 |
| Speed Limit:                                | 42              |
| Length (miles):                             | 3.8             |
| Facility Type:                              | Arterial        |
| Access Control:                             | None            |
| Functional Classification:                  | Major Collector |
| Terrain Type:                               | Rolling         |
| Lane Width:                                 | 12              |
| Paved Shoulder Width:                       | 0               |
| Roadway has Curb & Gutter?                  | No              |
| Volume (AADT):                              | 13246.32        |
| Capacity:                                   | 17144.09        |
| Volume/Capacity Ratio:                      | 0.77            |
| % Autos:                                    | 100%            |
| % Trucks:                                   | 0%              |
| Truck Volume:                               | 0               |
| Crash Density:                              | 73.87           |
| Crash Severity:                             | 40.57           |
| Critical Crash Rate:                        | 55.23           |
| Crash Frequency:                            | 0               |
| Severity Index:                             | 0               |
| County Tier Designation:                    | 3               |
| Non-Interstate STRAHNET Route?              | No              |
| Average Commuting Time:                     | 22              |
| Existing Median Type (for Cost Estimation): | Undivided       |
| Pavement Condition Rating:                  | 57              |
| Actual Congested Speed:                     | 3.08            |
| Travel Time Index:                          | 1.81            |

**Project Benefits**

|  |   |
|--|---|
| Project Cross-Section:                                 | 2J - 2 Lane Divided (23' Raised Median) with Curb & Gutter, Bike Lanes, and Sidewalks |
| Speed Limit:   | 40  |
| Length (miles):  | 1.8   |
| Facility Type:   | Arterial  |
| Access Control:  | Partial   |
| Functional Classification:                             | Major Collector   |
| Terrain Type:  | Rolling   |
| DOT Design Lane Width:                                 | 12  |
| DOT Design Paved Shoulder Width:                       | 4   |
| Travel Time Savings for 30 Years (Total):              | 8790832.23  |
| Travel Time Savings for 30 Years (Autos):              | 8790832.23  |
| Travel Time Savings for 30 Years (Trucks):             | 0   |
| Long-Term Employment:                                  |   |
| % Change in Economy:                                   |   |
| Provides Direct Connection to Transportation Terminal? | No  |
| Does project upgrade how the roadway functions?        | No  |
| In CTP or LRTP?  | No  |
| CTP/LRTP Name:   |   |
| CTP/LRTP Completion Year:                              |   |
| Submitted by:  | Division 9  |

\* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT Online tool and associated databases.

**Project Ownership****Division**

| <b>Division</b>              | <b>Percent</b> | <b>Regional Impact</b> | <b>Division Needs</b> |
|------------------------------|----------------|------------------------|-----------------------|
| Division 9                   | 100%           | 0                      | 100                   |
|                              | 0%             | 0                      | 0                     |
|                              | 0%             | 0                      | 0                     |
| <b>TOTAL Division Points</b> |                | <b>0</b>               | <b>100</b>            |

**MPO/RPO**

| <b>MPO/RPO</b>               | <b>Percent</b> | <b>Regional Impact</b> | <b>Division Needs</b> |
|------------------------------|----------------|------------------------|-----------------------|
| Winston Salem Urban Area MPO | 100%           | 0                      | 100                   |
|                              | 0%             | 0                      | 0                     |
|                              | 0%             | 0                      | 0                     |
| <b>TOTAL MPO/RPO Points</b>  |                | <b>0</b>               | <b>100</b>            |

**Project Cost and Source**

|                        |                     |                      |
|------------------------|---------------------|----------------------|
| Construction Cost:     | \$24,852,000        | TIP Unit             |
| Right-of-Way Cost:     | \$1,918,000         | Cost Estimation Tool |
| Utilities Cost:        | \$230,000           | Cost Estimation Tool |
| Total Project Cost:    | \$27,000,000        |                      |
| Other Funding:         | \$0                 | None                 |
| <b>Cost to NCDOT :</b> | <b>\$27,000,000</b> |                      |